

NEWS LETTER

Society of American Bacteriologists

OFFICE OF THE
SECRETARY-TREASURER

STERLING WINTHROP RESEARCH INSTITUTE
RENSSELAER, N. Y.

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Invited Members (Nonvoting):

J. R. Porter, Editor-in-Chief, THE JOURNAL OF BACTERIOLOGY; P. W. Wilson, Editor-in-Chief, BACTERIOLOGICAL REVIEWS; H. B. Woodruff, Editor-in-Chief, APPLIED MICROBIOLOGY; Orville Wyss, Chairman of the Program Committee; J. W. Bartholomew, Chairman of the Division of General Bacteriology; Erwin Neter, Chairman of the Division of Medical Bacteriology, Immunology and Comparative Pathology; J. C. Ayres, Chairman of the Division of Agricultural and Industrial Bacteriology; Howard Gest, Chairman of the Division of Physiology; and J. H. Richardson, Supervisor of Local Branches

Council Policy Committee:

- H. O. Halvorson, *Chairman* J. H. Bailey, *Secretary* J. R. Porter
C. B. Van Niel C. A. Stuart
K. B. Raper (1955) J. E. Blair (1956) Richard Donovanick (1957)

GUILFORD B. REED

1887-1955

In the death of Guilford B. Reed of Queen's University, Kingston, Ontario, at the age of sixty-seven years, bacteriology and the Society of American Bacteriologists have lost a thorough and valiant scientist and a loyal and devoted friend.

Doctor Reed's graduate training was in general physiology and he was also thoroughly trained in the basic physical and biological sciences, and the fundamental approach to the problems of bacteriology was always evidenced in his research work. In addition to being Professor of Bacteriology, Doctor Reed was Chairman of the Department of Bacteriology in the Medical School at Queen's University for thirty-five years, until he retired from the administrative post a year ago.

In addition to his university duties, Doctor Reed held important positions as a consultant to the Defense Research Board of Canada and as a result of the contributions which he made during the Second World War, was awarded the Order of the British Empire by the Canadian Government and the U. S. Medal with Palm by the American Government. Throughout his very active life Doctor Reed was held in the highest esteem by his colleagues and was President of the Royal Society of Canada in 1952 and was Chairman of the Fisheries Research Board of Canada for six years.

Doctor Reed was a most loyal member of the Society of American Bacteriologists. For many years he was on the Editorial Board of the *Journal of Bacteriology* and also served several terms as a member of the Council of the Society, as well as serving on many important committees.

REPORT OF REPRESENTATIVE TO THE DIVISION OF BIOLOGY AND AGRICULTURE, NATIONAL RESEARCH COUNCIL

The function and mode of operation of the Division are concisely summarized in the Introduction to its annual report of 1953-54:

"The work of the Division of Biology and Agriculture is performed by numerous advisory groups of biologists, bearing the name council, board, institute, committee, or subcommittee. Controlling the policies of the Division and hence the number, character, and activities of these advisory groups are the Chairman, executive committee, and members of the Division. The members are appointed representatives of certain

national biological societies, of certain governmental agencies, and of biologists at large."

The 1954 annual meeting was held at the National Academy of Science building in Washington, D. C. on May 15, 1954. The all day session was devoted to presentation of reports from the various committees and boards followed by a general discussion of the major issues facing the biological sciences and the role the Division might play in dealing with them. Space permits only a mere roll-call of the numerous reports received; the following excerpt from the agenda indicates the scope of these:

- VI. A. Biology Council and Committee on Educational Policies
- B. Agricultural Board, including
Agricultural Research Institute
Committee on Preservation of Indigenous Strains of Maize
Committee on Plant and Crop Ecology
- C. Food and Nutrition Board
- D. American Institute of Biological Sciences, including
Publications Committee
Handbook of Biological Data
Institute of Animal Resources
- E. Division Committee, including
Committee on Developmental Biology
Committee on Photobiology
- VII. Chemical-Biological Coordination Center
- VIII. Fellowship Programs
- IX. Manpower Problems
- X. International Activities

A few of the Division's committees whose activities should interest members of this *Society* include: Brucellosis and Leptospirosis; Dental Health; Aerobiology; American Type Culture Collection; NRC, NSF, and Lilly Postdoctoral Fellowships; and Radiation Biology. Any member wishing to obtain specific information on these reports can do so by inquiring of your representative. It should be emphasized also that a vast amount of information dealing with the activities of past and present committees of the Division is available in the form of interim and final reports. The existence of this body of knowledge is not generally known; while serving as your representative I have often learned of important sources of data dealing with some activity in which the *Society's* administration had become interested. My experience suggests that when taking up a new inquiry or survey, if you are uncertain about the existence of previous studies it is well to consult with the division's administration to learn whether it has knowledge of relevant reports or other published information.

PERRY W. WILSON

BACTERIOLOGICAL REVIEWS

Annual Report 1954

As in 1953, *Bacteriological Reviews* published its quota of pages (270 of the new format) and ended the year with a comfortable backlog of manuscripts in various stages of production. The fifteen reviews, published in 273 pages, had the following distribution in size: less than 15 pages, 3; 15-20 pages, 7; 20-25 pages, 3; more than 25 pages, 2. Both the average (18 pages) and the mode of this distribution falls within the size of review that appears to be most useful--between 15-25 pages. Obviously, shorter reviews will cause no difficulty, but the present backlog of manuscripts raises questions regarding publication policies with respect to the review that is necessarily long. For example, what facilities should the *Society* provide for publication of: (a) symposia and round-table discussions held at the annual meeting; (b) monographs?

A well defined policy for publication of the symposia has never existed. When pages have been available and the backlog not too large, a few have been published in abbreviated form in *Bacteriological Reviews*. This practice has not been too satisfactory for several reasons including: (a) at best only a few can be thus published, the others being relegated to publication by title only; (b) the condensation necessary to include all the papers on a program within the available space often leads to the regrettable consequence that not enough can be included to meet a real demand for information, yet enough has been disclosed that a needed conventional review is blocked for some time; (c) the space limitation also practically restricts the publication of symposia to those in which very few participate, surely an undesirable selective device; (d) the time lag in publication is frequently excessive.

In contrast, there is a definite policy for publication of monographs, but its meaning is not entirely clear. Our *Note to Contributors*, states that "with the advice of the Editor of the *Journal of Bacteriology*, *Bacteriological Reviews* can include publication of an "occasional short monograph". Whether this is merely permission or a charge is not stated. It should be noted that the short monograph usually consists not only of a review of the literature but also includes original, previously unpublished observations. This permit or duty has been discharged at various times in the past, and will be in the future as space allows. But with the accumulation of a backlog it may become increasingly difficult to handle these lengthier contributions. During the coming year the Editorial Board will discuss these matters with the appropriate committee and administrative officers

of the *Society* to effect, if possible, a more definite policy with proper implementation for its success.

Financial Report for BACTERIOLOGICAL REVIEWS

Income

Balance December 31, 1953.....	\$100.00
Received from Williams and Wilkins.....	500.00
	600.00

Expenditures

SAB meeting.....	153.81
Personnel (typing, checking mss.).....	142.50
Office (general supplies, phone, stamps)....	128.69
	425.00
Balance on hand December 31, 1954.....	175.00

Budget for 1955

SAB meeting.....	200.00
Personnel.....	300.00
Office.....	175.00
	675.00
From Williams and Wilkins.....	500.00
Balance.....	175.00
	675.00

PERRY W. WILSON
Editor

JOURNAL OF BACTERIOLOGY

Annual Report 1954

Five members (R. E. Bennett, F. B. Gordon, A. G. Karlson, E. H. Lennette, and Morris Tager) of the Editorial Board completed their terms in 1953. Also Dr. S. E. Luria asked to be relieved because of added editorial duties in connection with the new journal *Virology*. The Editor wishes to thank these members for their great service to the *Journal* and the *Society*. After consultation with the Editor and Council Policy Committee, the President of the *Society* made the following appointments to the Board to replace the above members: H. A. Barker, G. Bertani, J. L. Etchells, C. E. van Rooyen, and Guy P. Youmans.

The accompanying tabulation shows the disposition of manuscripts and certain other pertinent data on papers published during the year. The number of manuscripts handled in the editorial office during 1954 was only slightly higher than during the previous year. Although fewer manuscripts were awaiting publication at the end of the year than were on hand at the end of 1953, a backlog of six to seven months still exists. It is hoped that this backlog can be reduced during 1955.

JOURNAL OF BACTERIOLOGY

Number of manuscripts under consideration	
January 1	34
Number of manuscripts received during year . .	405
Number of manuscripts accepted during year . .	280*
Number of manuscripts returned to authors for correction or modification	121
Number of manuscripts rejected during year . .	119†
Number of articles published during year	271
Number of illustrations	1125
Number of manuscripts accepted and awaiting publication December 31	98
Number of manuscripts under consideration December 31	40‡

* Includes 1 manuscript received as 2 mss. and subsequently condensed to 1 ms.

† Figure includes number mss. referred to other journals, 3; withdrawn by authors, 14.

‡ Manuscripts in hands of reviewers, 20; mss. in hands of authors to consider reviewer's comments, 13; mss. in Editorial Office, 7.

The accompanying data show the expenditures of the Editorial Office during 1954.

Income:

Balance on hand January 1. \$	324.82
Received from Williams and Wilkins	3,700.00
Total	\$4,024.82

Expenditures:

Editorial Assistant + secretarial help + Social Security	3,151.00
Postage, office supplies, etc.	718.60
Total	3,869.60
Balance on hand December 31	155.12

Owing to salary increases, postage, etc., it cost \$492.42 more to operate the office this past year than in 1953. The membership should realize, however, that members of the Board give freely of their time and office space is provided gratis.

J. R. PORTER
Editor

APPLIED MICROBIOLOGY

Annual Report 1954

During 1954, Volume 2 of *Applied Microbiology* was published. A great variety of subjects was covered in the 84 papers included in the six issues of the new journal. Our contract with Williams & Wilkins calls for publication of 400 pages per year. Although the full number of pages was published in 1954, the backlog of acceptable articles increased somewhat. Reduction of the backlog of unpublished papers, if warranted, will be accomplished

in 1955 by utilization of the reserve pages available from Volume 1. Thirty-nine per cent of the articles reviewed during the year were either rejected outright or accepted only after extensive modification. Many of the remaining papers, which were not returned to the authors, required modifications during editing which were handled through direct correspondence with the authors.

The following tabulation shows the number of papers received prior to December 31, 1954 and their disposition, and a comparison with similar data for 1953:

	1953	1954
Number of manuscripts received for publication prior to December 31 . . .	132	111
Number of manuscripts accepted	100	90
Number of manuscripts returned to authors for correction or modification . .	29	26
Number of manuscripts rejected	25	15
Number of manuscripts under consideration, December 31	7	6
Number of papers published	74	84
Backlog of accepted papers awaiting publication on December 31	31	37
Pages printed	344	401

Income:

The following tabulation shows the expenses of the Editorial Office for 1954.

Balance on hand January 1, 1954. \$	17.09
Received from Williams & Wilkins. . . .	400.00
Total	\$417.09
Expenditures:	
Secretarial and editorial assistants	60.00
Postage, office supplies, etc.	80.00
Transportation and meeting expenses	124.36
Total	264.36
Balance on hand, December 31, 1954. . . .	152.73

H. B. WOODRUFF
Editor

REPORT OF THE SECRETARY-TREASURER

The year 1954 has been an eventful one for the Society, both by its own efforts and, unfortunately, by circumstances beyond its control.

The Society has published the booklet, prepared by Dr. John E. Blair, "A Career in Bacteriology" for the use of students, Vocational Guidance Councilors and faculty advisors. This booklet may be obtained at no cost, in reasonable number, by application to the Business Office. It is hoped that this service to young students may be continued and that the booklet can be kept up to date.

Early in 1954 the Society was notified by the

U. S. Treasury Department that it had no record that the Society had ever made application for a tax exempt status under the provisions of the Internal Revenue Code governing scientific, charitable, educational, literary and religious bodies. The Society was ordered to make application for such a status on the form accompanying the order. This was done. The Income Tax Bureau then requested additional information which was supplied. The decision on our application made June 30th was as follows:

"Gentlemen:

"This is in further reference to your application for exemption from Federal income tax under the provisions of section 101(6) of the Internal Revenue Code.

"The evidence presented discloses that you were incorporated on March 25, 1947, under the laws of the District of Columbia, the successor of an organization with the same name, incorporated under the laws of the State of Indiana, in 1920, and dissolved December 8, 1947. Your purposes, as stated in your articles of incorporation, are to promote scientific knowledge of bacteriology and related subjects through discussions, reports and publications, to stimulate scientific investigations and their applications, to plan, organize and administer projects for the advancement of knowledge in this field and to improve professional qualifications.

"It is indicated from the information submitted that your primary activities as an organization are the publishing or publication of periodicals and the holding or conducting of general annual meetings. Your publishing agreements provide that net profits from the business operation of periodicals shall be equally divided between you and the publisher. Your publisher is a taxable corporation organized and operated for profit on a regular commercial basis.

"It is stated that of the \$9.00 dues received from members only \$1.00 goes to pay the running expenses of your organization. The difference between the amount paid by members' dues and the actual cost of running expenses are made up from profits on publications. Likewise, for only \$8.00 and/or the balance of dues, members receive a subscription to the Journal of Bacteriology, Bacteriological Reviews, News Letter and a copy of the proceedings of the annual meeting, while nonmembers pay \$14.00 a year for only the Journal of Bacteriology and Bacteriological Reviews, which in itself does not indicate the spirit of section 101(6) of the Code, or a further indication that your net earnings inure to the benefit of individuals, which are your members.

"It is further noted that included in your members are a substantial number of sustaining members, all of whom are commercial or industrial firms, interested in the same or same general field, and operating for profit, who also receive the benefits of your activities and operations.

"Substantial sums are received from exhibitors at your general annual meetings. Such funds are used,

for the benefit of members, to defray in whole or in part the expense of your banquet, smoker, special meals, tours, etc. Income in excess of expenses from annual meetings is used for other operating expenses or is transferred to surplus or reserve.

"Section 101(6) of the Code provides for the exemption of:

"Corporations, and any community chest, fund or foundation, organized and operated exclusively for religious, charitable, scientific, literary, or educational purposes, . . . , no part of the net earnings of which inures to the benefit of any private shareholder or individual, . . ."

"Section 39.101(6)-1 of Regulations 118 provides as follows:

"... In order to be exempt under section 101(6), the organization must meet three tests: (1) It must be organized and operated exclusively for one or more of the specified purposes; (2) Its net income must not inure in whole or in part to the benefit of private shareholders or individuals . . ."

"Your agreements, method of operation and financial statements clearly disclose that your activities are carried on for profit on a regular commercial basis and for the benefit of your members.

"In view of the foregoing, it is our conclusion that you are not entitled to exemption from Federal income tax under the provisions of section 101(6) of the Code. Accordingly, you are required to file income tax returns, Form 1120, with the District Director of Internal Revenue, Albany, New York, who is being advised of this action.

"If you do not agree with this ruling, you may within thirty days from the date of this letter file a protest in accordance with the enclosed instructions. Any protest filed will be given careful consideration and a conference in Washington will be granted if requested."

An appeal was made from this decision and the hearing on the appeal was held in Washington on October 7 before three members of the Exempt Organizations division. The Society was represented by its attorney, the business manager, the editor of the Journal, the past editor of the Journal, the editor of Bacteriological Reviews and the Secretary-Treasurer.

The hearing lasted about two and one half hours most of which was spent in an attempt to correct the misunderstanding of the Treasury Department concerning our annual meeting and the benefits the members get from it and the other activities of the Society. The remaining time was used in legal fencing over the relationship of the Society to its publisher.

At the conclusion of the hearing the government spokesman said that they hoped to make a prompt ruling on the appeal but that it could not be expected until "after the first of the year". To

date (February 21, 1955) nothing further has been heard from the Treasury Department.

Two courses of action regarding the decision were open to the Society: 1) Refuse to pay the tax, interest and penalties on the cash profits of the Society for the years 1947 through 1953, or 2) pay these taxes, with interest and penalty under protest and file with the returns and payments a claim for a refund of the taxes, interest and penalty. Adoption of the first course of action would result in a suit in federal court which would be costly even if the Society won the case. The second course was followed, the Society paying income taxes for the years 1947-1953 of \$2,057.15, interest at 6% of \$196.81 and penalties (25% of tax) of \$514.29, a total of \$2,768.25.

A claim of \$2,768.25 for improperly collected tax, penalty and interest was filed at the same time that the payment was made. In the event that the Society is declared a tax exempt organization, this sum plus interest at 2½% will automatically be refunded.

Should the above ruling stand every scientific society whose income exceeds their expenses would be liable to income tax, no matter what their present status may be. The Society is unique neither in its activities nor its publishing agreements and ventures. Indeed, certain scientific organizations that at present hold an exempt status make awards that are restricted to members of that organization. Reference to the quotation above from Section 101(6) of the Code is suggested.

In view of the broad implications of the ruling for all scientific organizations the attention of the National Academy of Sciences was called to the situation. The president of the Academy brought the matter to the attention of the Council of the Academy who ordered that the matter be gone into and action taken. All information that the Society presented to the Treasury Department has been turned over to the Academy and their attorney. The matter was on the agenda of the last Council meeting held the first part of February.

Until such time as the Society is granted an exempt status, it must be prepared to pay income tax, and must be scrupulously careful that all its activities are those allowed under the Internal Revenue Code and its Regulations, to a scientific tax exempt organization, and only those.

Business Office

The Business Managerial Service provided by Williams and Wilkins, has continued to be highly satisfactory to the Society both from a service standpoint, and financially as well. As Williams and Wilkins has gained experience in this service they have been able to reduce the cost per member to the Society. Williams and Wilkins returned \$1,644.83 to the Society in 1954 representing the

difference between the estimated and actual cost of the Managerial Service.

Membership

The total membership on December 31, 1954 was 5248, a gain for the year of 165 over 1953. A break down of the membership for 1954 and 1953 follows:

	1954	1953
New Members.....	442	603
Renewals.....	4634	4317
Sustaining.....	89	90
Honorary.....	5	5
Corresponding.....	14	14
Retired.....	13	13
Emeritus.....	61	51
Total.....	5258	5093

The Society lost 277 members by death, failure to pay dues and resignation during 1954, a decrease of 41% over 1953 when 471 members were lost. It would appear that the period of rapid growth the Society has experienced for a number of years passed is ending. Preliminary figures indicate that approximately the same number of old members will pay 1955 dues as paid dues for 1954.

During 1954 three Past Presidents of the Society died: L. F. Rettger, F. C. Harrison and H. L. Russell. Dr. Russell was a charter member of the Society.

Financial

The Society experienced a financially successful year despite rising costs. A 24.6% increase in the cost per page of printing the Journal and Bacteriological Reviews occurred during the year and is reflected in the decrease in income shown by our publications. Applied Microbiology, in its second year of publication, showed a small profit to the publishers, although not large enough to overcome the deficit incurred during its first year of publication.

The Cash Statement and Balance Sheet printed below may be misleading as to the financial position of the Society unless the increase in dues is borne in mind. Over half of the members paid their 1955 dues by December 31, 1954. This money, for use in 1955, must be counted, because the Society operates on an annual basis, as 1954 income. This fact, coupled with a record breaking refund from Williams and Wilkins for Journal operations, accounts for the high income and cash on hand shown in the cash statement and balance sheet. If the increased amount collected because of the increase in dues be deducted from the total income for 1954, the increase in excess of income over expenditures was less than a thousand dollars over the preceding year.

The Society increased its invested capital by

the purchase of \$2000 U. S. Treasury bonds. Interest from the savings accounts and the maturity of a Series F savings bond made this possible without using money from the operating funds.

The financial statements for the Society's operations for 1954 and a budget for 1955 follow:

SOCIETY OF AMERICAN BACTERIOLOGY 1954 INCOME, EXPENSES AND RESERVE Accrual Basis

Income:

1954 Active Mem.		
36 New rec'd. 1953.....	\$ 530.75	
442 New rec'd. 1954.....	3,969.00	\$4,499.75
2809 Renew rec'd.....	25,216.40	
1789 Renew rec'd.....	16,030.15	41,246.55
1954 Sustain. Mem.		
75 Renew rec'd.....	3,750.00	
14 Renew rec'd. 1954....	700.00	4,450.00
Dues for Refund (Credit).....	29.85	
Award Grants.....	2,300.00	
Sales of Proceedings.....	161.00	
"Alice in Virusland" Sales.....	127.50	
Less: Mailing, handling, etc.	61.23	66.27
Income—Biotech Publications.....	227.96	
1953 Reimbursement from W-W on JB and MIC.....	11,573.22	
Supplement—Sales.....	3,256.06	
Less: Costs.....	3,225.96	30.10
Interest Income.....	1,464.42	
Reprint Sales.....	497.25	
Sale of Mail List.....	114.00	
Sale of Directory.....	30.00	
Miscellaneous.....	6.43	
Total Accrual Income for 1954...	\$66,696.80	

Expenses:

Sec.-Treas.:		
Salary (1½-time Secretary).....	1,800.00	
Office Expense and Travel.....	290.18	
Misc. Society Expenses.....	659.03	2,749.21
W-W—JB Subs. (5165 Subs x 8.00).....	41,320.00	
1954 Newsletter.....	3,007.06	
W-W 1954 Managerial Service.....	8,258.00	
Less: Refund to be paid in 1955.....	1,860.55	6,397.45
Dues Refunded (Debit).....	60.60	
1954 Annual Meeting		
Disbursed 1952.....	500.00	
Disbursed 1953.....	454.50	

Disbursed 1954.....	6,655.00	
	7,609.50	
Less 1954 Receipts.....	7,406.00	203.50

Awards.....	2,300.00
Committee on Certification, Expense.....	222.42
Archives Committee.....	119.42
Editorial Office Copies of JB.....	200.00
"Career in Bacteriology".....	634.19
Sundry Expenses, Tax Case—to date.....	458.81
Returned Check (\$153.00 credit less \$63.00 debit).....	90.00
Miscellaneous Expense.....	57.75
Total Accrual Expenses for 1954..	57,532.41
Balance to Reserve (See note be- low).....	9,164.39
	\$66,696.80

Income tax, penalties, and interest totaling \$2768.25 and \$1995.52 worth of securities were purchased. Since the tax payments covered the years 1947 to 1953, this is not a 1954 expense. The securities, being an asset, cannot be considered an expense. The actual balance, however, is \$4,400.62.

SOCIETY OF AMERICAN BACTERIOLOGISTS CASH STATEMENT—CHECKING ACCOUNT January 1 thru December 31, 1954

Balance 12/31/53: Checking Acct.....	8,407.99
Savings Acct.....	10,003.48
	18,411.47

Receipts

1954—Active New—442.....	3,969.00
1954—Active Renewals—1789.....	16,030.15
1955—Active New—58.....	696.00
1955—Active Renewals—2709.....	32,479.45*
1954—Sustaining New.....	—
1954—Sustaining Renewals— 14.....	700.00
1955—Sustaining New.....	—
1955—Sustaining Renewals— 56.....	4,200.00*
Dues for Refund (Credit).....	29.85
Back Dues (52-53).....	176.00
Future Dues (1956).....	21.50
Award Grants.....	2,300.00
Sales of Proceedings.....	161.00
Applied Microbiology Subs., Debit.....	98.00
Annual Meeting 1954.....	7,406.00
Alice in Virusland Sales.....	127.50
Income from Biotech Publ.....	227.96
Rfd. from W&W—1953 Man. Serv.....	1,644.83
1953 Reimbursement from W&W on JB.....	11,573.22
Sales of Supplement.....	3,256.06
Interest Income.....	1,464.42
Return of Invested Principal.....	962.00
Reprint Sales.....	497.25
Sale of Mail Lists.....	114.00

Sale of Directory.....	30.00
Refund from Comm. on Certification.....	300.24
Miscellaneous.....	6.43

Total Receipts for 1954..... 88,470.86

Disbursements

Secretary-Treasurer's Expense	2,749.21
W&W JB Subs:	
1953.....	144.00
1954.....	17,808.00
1955.....	22,687.00
1956.....	13.50

1954 News Letter.....	3,007.06
W&W Managerial Services.....	8,258.00
Dues Refunded (Debit).....	60.60
1954 Annual Meeting.....	6,655.00
1955 Annual Meeting.....	550.00
1956 Annual Meeting.....	500.00
Applied Mic. Subs. Credit.....	98.00
Alice in Virusland Cost.....	61.23
Awards.....	2,300.00
Securities Purchased.....	1,995.52
Supplement.....	3,225.96
Com. on Certification Expense.....	222.42
Archives Committee.....	119.42
Editorial Office Copy of JB.....	200.00
"Career in Bacteriology".....	346.19
Inc. Tax, Interest, & Penalty 1947-53.....	2,768.25
Tax Case.....	458.81
Returned checks Cr.....	153.00
Returned checks Dr.....	63.00
Miscellaneous.....	90.00
	57.75

Total Disbursements for 1954..... 74,375.92
Increase Cash for the Year..... 14,094.94

Balance 12/31/54 Checking Acct.....	13,926.51
Savings Accts.....	18,579.90
	32,506.41

* Additional dues income as a result of increase of membership dues from \$9.00 to \$12.00 and sustaining membership dues from \$50.00 to \$75.00.

SCHEDULE A

The Williams & Wilkins Company

Managerial Service for Society of American Bacteriologists Profit & Loss Statement Calendar Year 1954

Income.....	8,258.00
Expenses:	
Payroll (Clerical & Administrative).....	4,279.80
Stationery, Postage, etc.....	1,283.20
	5,563.00
Rent, Light, Heat, Use of Equipment (15%) of expenditures.....	834.45
Total.....	6,397.45
Profit (To be refunded in 1955).....	1,860.55

SOCIETY OF AMERICAN BACTERIOLOGISTS BALANCE SHEET

As of December 31, 1954

Assets:

Cash: Checking Account.....	13,926.51
Savings Accounts.....	18,579.90
	32,506.41
U. S. Bonds, Series F (Maturity Value 7,000.)	
Redemptive value 1/1/54.....	6,193.00
1954 Appreciation.....	190.00
	6,383.00
U. S. Treasury Bonds (2½%) at cost (Face value \$35,000).....	33,108.70
Accrued Assets—Expenses of 1955	
Annual Meeting Paid in 1954.....	550.00
1956 Meeting Paid in 1954.....	500.00
1955 Subscriptions Paid in 1954.....	22,687.00
1956 Subscriptions Paid in 1954.....	13.50
	95,748.61

Liabilities and Reserves:

Deferred Liabilities

1955 Annual Meeting Costs Paid in 1954.....	550.00
1956 Annual Meeting Costs Paid in 1954.....	500.00
1955 Dues paid in 1954.....	3,114.82
1955 Dues (Adjustment).....	34,260.63*
	37,375.45

1956 Dues paid in 1954.....	21.50
1955 Dues paid in 1953.....	7.00
Reserve for Biotech. Publication.....	1,300.00
Reserve for 1955 Directory.....	3,000.00
Reserve for 1956 Annual Meeting.....	2,500.00
Reserve for 1954 Income Tax (to be paid in 1955).....	5,069.03
Reserve for Federal Income Tax Case.....	4,000.00
	54,322.98

Surplus:

Invested Capital.....	39,491.70
Surplus.....	1,933.93
	41,425.63
	95,748.61

* Additional dues income as a result of increase of membership dues from \$9.00 to \$12.00, and sustaining membership dues from \$50.00 to \$75.00.

SCHEDULE B

Financial Statement of Journal of Bacteriology and Bacteriological Reviews 1954

Income:	
Subscription Sales.....	\$85,193.73
36 Excess pp. trans. from Reserve.....	1,269.36
Space Sales.....	15,313.28
Total Revenue.....	\$101,776.37
Expenditures	
Printing Cost of Text 1538 pages JB 278 pages BR	
1816.....	\$53,322.36
Printing Cost of Advertising Section (net).....	5,317.29
Postage.....	5,427.06
Mailing List.....	1,402.19

Editorial Costs.....	7,547.22	
Marketing Costs.....	85.48	
Overhead Expense.....	13,329.00	
Total Expenses.....		\$86,430.60
Profit Current Issues.....	15,345.77	
Back Volume Sales.....	1,714.69	
Net Surplus.....		\$17,060.46
50% to S.A.B.....		8,530.23
50% to W-W Co.....		8,530.23

Subscriptions

JB—Member	5141
JB—Non Member	3186
BR—Non Member	264

Gross Operating Revenue from all sources \$103,491.06.

SCHEDULE C

Financial Statement of Applied Microbiology, 1954

Income		
Subscription Sales.....	\$12,724.13	
Space Sales.....	908.40	
Total Revenue.....		\$13,632.53

Expenditures

Printing Cost of Text 398 pages.....	\$9,639.37
Printing Cost of Advertising (5 issues).....	357.36
Postage.....	230.77
Mail List.....	214.90
Editorial Costs.....	1,101.41
Marketing Costs.....	58.84
Overhead.....	1,850.00

Total Expenses..... \$13,452.65

Profit Current Issues.....	179.88
Back Volume Sales.....	355.55
Other Revenue.....	282.82

Net Surplus for Year..... \$863.25

Loss 1953.....	\$2,129.75
Profit 1954.....	863.25

Balance of Loss..... \$1,266.50

Paid Subscriptions 1721

Gross Operating Revenue from all sources \$14,385.05.

BUDGET FOR 1955

Income

Dues Active Members (5000 x \$12)...	\$60,000.00
Dues Sustaining Members (80 x \$75)...	6,000.00
Award Grant.....	1,150.00
Misc. Income.....	700.00

\$67,850.00

Expenses

Williams and Wilkins Subscription (5085 x \$8).....	\$40,680.00
Managerial Service.....	7,887.00
Lilly Award.....	1,150.00
News Letter.....	3,300.00

Secretary-Treasurer's Office.....	3,500.00
Legal Fees.....	2,000.00
Taxes.....	5,000.00
Committee on Materials for Visual Instruction.....	200.00
Committee on Certification.....	500.00
1957 Meeting.....	500.00
1955 Directory.....	2,500.00
1955 Meeting.....	600.00
Surplus.....	33.00

\$67,850.00

JOHN HAYS BAILEY
Secretary-Treasurer

SYMPOSIA

To establish a more uniform and consistent method of publication of the subject material of symposia and round table discussions given at the Annual meeting of the *Society*, the Council Policy Committee at the request of the editors of the *Society's* publication have suggested the following policy:

1. After the annual meeting, the convener of each symposium or round table should send to The Editor of *Bacteriological Reviews* a summary of the discussions. These should not exceed one to two pages of the present format (about 700 words per page). If desirable, an additional page will be available for publication of a selected bibliography of key papers that cover the material discussed. The general form of such a summary is illustrated in the summary by Professor Richard H. McBee on *Oxygen Relationships in Bacteria*, *Bacteriological Reviews*, volume 19, March, 1955.

2. These summaries will appear in a single issue of BR. Whenever the annual meeting is held in the Spring, the deadline for delivery of final copy to the Editor of BR shall be July 1. It is planned, then, to publish these in the December issue of the same year in which they are held. The convener (or person writing the summary under direction of the convener) should write the Editor of BR for a detailed style sheet for preparation of manuscripts for BR. In 1955 a copy of the manuscript by Professor Richard H. McBee will also be furnished for guidance.

3. Finally it is emphasized that this policy represents only an *opportunity* to publish the symposium, not a *guarantee* that it will be published. The Editorial Board of *Bacteriological Reviews* will exercise the usual editorial scrutiny, particularly that the resume has been written in the form and style of the *Reviews*. Moreover, the publication of this summary will not jeopardize the publication by BR of a conventional review on the same or related subject by any participant or other contributor if the usual arrangements are made with the Editor of BR.

EMPLOYMENT BUREAU

Dr. Milton J. Foter, Director of the Employment Bureau will maintain Headquarters in Parlors B and C, mezzanine floor. Office hours will be from 9-12 and from 1:30-5. May 9-12, 1955. Applicants for positions should report at the Employment Bureau immediately following registration at the Convention in order to receive information on interviews with employers.

Employers attending the convention who have need for the services of microbiologists are invited to inspect the qualification records of applicants and arrange for interviews at the Bureau Headquarters or other places of mutual convenience.

Upon the recommendation of a number of employers, the services of the Bureau will be expanded on a trial basis. A mechanism has been devised so that employers can register staff vacancies. Fellowships, assistantships, and grants can also be listed by academic institutions for the benefit of individuals interested in advance training and academic research. Since there is no financial obligation involved, it is hoped that all employers will avail themselves of this service.

COTTON PLUGS MADE FROM ABSORBENT COTTON ROLLS

The problems associated with materials and hand production of cotton plugs for use in bacteriology are so well known to require no comment, but of these, the time and effort to make them especially rolled plugs, have become formidable items in the budget. Although we have not seen the product of a commercial machine designed for this purpose, we would like to describe our satisfactory experience with the dental absorbent cotton roll.

This item (#4) was first obtained in 6 inch rolls of $\frac{5}{8}$ inch diameter and cut to a desirable $1\frac{1}{2}$ inch length which now can be obtained directly from the manufacturer*. These plugs readily fit 16 mm culture tubes; it is no problem for one to plug 10,000 tubes/day to sterilize for any desired use. Despite their absorbent nature, these have not become objectionably damp in the autoclave as evidenced by the media remaining sterile for many days at room and refrigerator temperatures. Yet their absorbency permits ready spotting with aqueous dyes for media identification. There is, however, a tendency for these plugs to stick to the wall of the tube because of the glazing material incorporated; this leads to badly frayed plugs in the hands of the unwary, but it can easily be overcome by routinely twisting the plug

* (Dental Absorbents Co., 619 East Montecito St., Santa Barbara, California, sole manufacturer of this size roll states larger rolls can be made for 19 mm culture tubes.)

before removal. Adherence can be lessened by dry heat sterilization before filling the tubes with culture media. Nevertheless, we have found these plugs to be highly satisfactory for routine and teaching needs in our department concomitant with a significant (30-50%) saving of time in the overall preparation of tubed culture media.

MARSHALL L. SNYDER and MARIE S. SLAWSON
Department of Bacteriology, Dental School,
University of Oregon, Portland 14, Oregon

KIMBLE METHODOLOGY RESEARCH AWARD

The Kimble Methodology Research Award is administered by the Conference of State and Provincial Public Health Laboratory Directors and consists of \$500 and a suitably inscribed plaque. The Nominating Committee for this award seeks candidates for the fourth annual award. The rules governing nominations, which should be sent to Dr. M. Scherago, chairman, Nominating Committee, Kimble Methodology Research Award, University of Kentucky, Lexington, Ky., are as follows:

1. The candidate's work to be considered for nomination should be either:
 - a. A fundamental contribution which serves as a base line for development of diagnostic methods which fall within the province of the public health laboratory.
 - b. The adaptation of a fundamental contribution to make it of use in a diagnostic laboratory.
2. The geographical area from which candidates for nomination are to be drawn should be the United States, its territories, and Canada.
3. To be eligible for consideration for nomination in any year, the work should have been completed within the preceding five years; that is, work completed since January 1, 1950.
4. Consideration will be given to nominations *only* if they are covered by a reprint or a summary with bibliography, and a statement of the considerations which justified the recommendations of the study.
5. Nominations received after May 30, 1955 will not be considered for the Kimble Methodology Research Award for the year 1955, but will be considered for nomination in 1956, providing the work is within the limits of the above Rule 3 effective during 1956.
6. Nomination of a piece of work where there is more than one author is permissible. (Note: If such work is selected by the Awards Committee, division of the cash award shall be arranged between the workers themselves, but the plaque accompanying the cash award shall be suitably inscribed and become the property of the laboratory where the work is done.)

Mr. Type Culture Collection

Revising catalogue.

SAB \$3000 toward cost of \$5000.

Comm. on Education

Films

By - Laws

Delete division of dues statement
(for tax reasons). Passed.

Student Memberships

Investigation of possible
special rates to be made
this year.

Tax Situation

Not settled - looks favorable.

Employment Bureau

- 1 - See report
- 2 - Suggested listing jobs
in J. Bart. in News letter
taken under advisement

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UN-
Comm. Advisory to Chem. Corps

ASC has one (20)

CPC approved.

Council " "

Difco Award (Starkey)

For SAB useful service
(travel grants) academic ^{int} _{city}

Why not include State Health
Dept. employees? Discrepancy!
and industrial! " " " " " "

Amended to include all.

Amended report passed.

Acknowledgment members.

Meeting Places

1958 not settled.

Adequate facilities must be
available.

Comm. to determine place
and CPC to pass for 1958.

Wms. & Wilkin to run Houston Mt. 1956.

Comm. to recommend for 5 yrs.

CPC can make decision.



Directa of Local Branches

Same old balogne - Swanson.

Journed To 9 AM Mon.



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7. All publications, summaries, materials, etc., submitted to the Nominating Committee shall become the property of the Conference of State and Provincial Public Health Laboratory Directors and will not be returned to the sender.

Application blanks may be obtained from Dr. M. Scherago, Chairman, Nominating Committee, Kimble Methodology Research Award University of Kentucky, Lexington, Kentucky.

SECOND INTERNATIONAL CONGRESS OF ALLERGOLOGY

The Second International Congress of Allergology will be held, by invitation of the Brazilian Allergy Society, in Rio de Janeiro, November 6-13, 1955, under the chairmanship of Dr. F. W. Wittich, Minneapolis, Minnesota, President of the International Association of Allergology. A wide and extensive program dealing with almost all important problems of allergy and related immunology, biochemistry, pharmacology and therapeutics has been elaborated, and is under preparation by the I. A. A. and the Brazilian Allergy Society.

Sir Henry H. Dale, London; Professor Pasteur Vallery-Radot, Paris; Professor Bernardo Housay, Buenos Aires and Dr. Robert Cooke, New York City, have been invited as guest speakers. The official languages will be English, French, Portuguese and Spanish, and the main topics will be presented in these languages, although scientific communications and discussions may be presented in the native language of the author.

The scope of the program is wide, including symposia on: histamine, drug allergy, hematology, chemistry of antigens and antibiotics, immunological techniques, electrolytic disturbances, hormones, psychosomatics, dermatology, industrial allergy and allergy to microbes and parasites.

A fairly large number of scientific communications will be presented.

A very interesting program including scientific and technical exhibits, receptions, excursions, entertainments, banquets and also a ladies' program elaborated by the Brazilian Allergy Society will make of this Congress a never-to-be forgotten meeting.

North Americans wishing to present papers should send in their requests to Dr. Fred W. Wittich, 424 LaSalle Medical Building, Minneapolis 2, Minnesota.

All information concerning the Congress is available from the General Secretary of the I. A. A.

DR. BERNARD N. HALPERN
197, Boulevard Saint Germain
Paris VII^e, France

or from the Secretary of the Sociedade Brasileira de Alergia

DR. FABIANO ALVES
Avenida Rio Branco 277
7^o andar, sala 705
Rio de Janeiro, Brazil

A SUMMER COURSE IN THE PRINCIPLES AND TECHNIQUES OF TISSUE CULTURE—1955

The Tissue Culture Association is again sponsoring a course of instruction in the principles and techniques of cell and tissue culture. The course will be under the direction of Dr. Charles M. Pomerat, University of Texas Medical Branch, and will be given in the laboratories of The Mary Imogene Bassett Hospital, Cooperstown, N. Y. It will start on August 2nd and end on August 27th. Tuition will be one hundred dollars.

The five basic methods of cell culture are employed in the laboratory work. The morning work includes a review of the principles and techniques pertaining to the main event of the laboratory work, and a demonstration of the procedures to be used. Each participant prepares and manages his own cell cultures. Afternoons afford opportunity for library work and for consultation with the staff concerning the projects contemplated by each of the class members. Evening lectures to broaden horizons are given by members of the staff and by distinguished guest lecturers.

The course is designed specifically for post graduates (M.D. or Ph.D.) who plan to use cultured tissues in their research or teaching. Requests for application forms should be addressed to Dr. Mary S. Parshley, College of Physicians and Surgeons, 630 West 168th St., New York 32, N. Y., and should be completed and returned to her not later than May 1st. Successful candidates will be notified about May 15th.

COLD SPRING HARBOR COURSES

The Biological Laboratory is offering two specialized summer courses, designed to acquaint research workers with the most important techniques used in bacterial virus research and bacterial genetics. The course on *Bacterial Viruses* will be held from June 20 to July 9, and *Bacterial Genetics* will be conducted from July 13 to August 2. A limited number of fellowships covering part of the tuition fees are available for graduate students. In addition, research facilities for work in microbial genetics will be available throughout the summer to a limited number of independent research workers. Information may be obtained from the Biological Laboratory, Cold Spring Harbor, New York.

VIIth INTERNATIONAL CONGRESS OF COMPARATIVE PATHOLOGY

The VIIth International Congress of Comparative Pathology will be held at the Institut d'Anatomie Pathologique, Lausanne, Switzerland, May 26-31, 1955. The program will include, in part, formal papers and discussions on viral infections transmitted to man by animals, pathologic and hygienic aspects of atmospheric pollution problems, and growth disturbances in comparative pathology including the human problem. Official languages of the Congress will be French, English, German, Italian, Spanish, and Russian. A technical exhibit will be provided and visits to scientific institutions will be made. Post Congress tours of 2 to 5 days in scenic Switzerland are planned. Titles and texts of communications must be submitted not later than May 1, 1955, to the General Secretary of the VIIth International Congress of Comparative Pathology, 19 rue César-Roux, Lausanne, Switzerland. Requests for the program and inquiries concerning registration should be addressed to the General Secretary, or to Lee M. Hutchins, Chairman, United States Section (Chief, Division of Forest Disease Research, Forest Service, U. S. Department of Agriculture, Washington 25, D. C.)

JOURNALS FOR SALE AND WANTED

Volume 49 (1945) through Volume 68 (1954) of the *Journal of Bacteriology* and Volume 9 (1945) through Volume 18 (1954) of *Bacteriological Reviews* are offered for sale by Mrs. W. F. Warner, Castleton-on-Hudson, N. Y. The *Journal* Volumes 49 through 54 are bound, all others are unbound.

R. F. DeLong, Marathon Corporation, Minasha, Wisconsin wishes to purchase Number 6 of Volume 61 of the *Journal*. He has Numbers 1, 2, 3 and 6 of Volume 64 for sale.

BACTERIOLOGICAL REVIEWS WANTED

The Department of Bacteriology, School of Medicine, University of Oklahoma needs Volume 1, 1937 of *Bacteriological Reviews* to complete its set. Anyone wishing to sell this volume should write Dr. L. Vernon Scott, 800 NE 13th St., Oklahoma City 4, Okla.

A. P. HITCHENS AWARD

The fifth A. P. Hitchens Award, given by the Department of Biology, Lehigh University to the outstanding graduate student for the year, has been made to Mr. James R. Vaughn for the year 1954.

NEW BOOKS

Perspectives and Horizons in Microbiology. Selman A. Waksman, Editor. New Brunswick, N. J.: Rutgers University Press; 1955. X + 220 pp., \$3.50.

Actions of Radiations on Living Cells by the late D. E. Lea, Second Edition 1955, New York: Cambridge University Press, 397 pp. \$6.00

This book is just as reported, a Second Edition not a Revised Edition of Lea's 1946 classic. Dr. L. H. Gray has added an appendix containing the textual revisions and some additions which Lea himself had written into his own copy of the book. In addition several small errors have been corrected. The error on P. 65 has persisted; either the dose or the molecular weight is high by a factor of 3. This edition includes no references to the literature later than 1946. In the preface Dr. Gray states "In attempting to meet the demand for a second edition, it was considered desirable to make this challenging presentation of certain aspects of radiobiology available again in its original form which bears on every page the mark of Lea's clear mind and incisive logic". There is no doubt that Lea is a must for everyone working in the field of radiation biology. No other single source presents so many of the fundamental aspects of this complex subject so clearly and concisely. Newer information and more complete data have modified or out moded some of Lea's concepts but the student will find this work a vantage point from which to assess the rising tide of radiation literature.

W. D. BELLAMY

My Life with the Microbes. Selman A. Waksman, New York: Simon and Schuster; 1954. XII + 364 pp., \$5.00.

When honors pile high upon a single figure, he is over-whelmingly urged to tell his own story. Add the dedication of the Institute of Microbiology and the receipt of the Nobel Prize, and a Waksman book became inevitable. Few men achieve such a record. He is entitled to the paean of triumph with which he begins. He thanks, by name, very fully, every one of us who ever cheered or helped him on his way.

His first chapter traces in brief and crowded paragraphs the first century of microbiological studies. The pressing problems, the accomplishments, and sketches of the tasks before us are forced into 10 pages.

Then an intimate story of his birth, boyhood, and his elementary education gives a picture of a Jewish village home and family in the Ukraine. The writer is not an amateur—the reader can shut his eyes and see that village. The clash of races, so common in that part of Europe reached even the remotest areas. The Czarist officials added the consciousness that all were subjects of a distant and ruthless authority. Through it all, his mother and grandmother are pictured as competent, resourceful and ambitious for his education toward a profession. Thus he reached the age of 18 and sought further credits necessary to enter

some Russian University. For this purpose he left his home and went to several of the larger cities, ultimately Odessa. Even then the difficulty of getting admitted to the Russian Universities seemed to increase; meanwhile relatives in America were beckoning.

He left Russia in October 1910, arrived in Philadelphia November 2, 1910. His life with relatives covered several months. He was admitted to Rutgers in September 1911—age 23. He was thus much older than most of his fellow students—deficient in some topics, advanced in others, but facing the work with a more mature mind than most of them.

The undergraduate story is interesting but differs only in detail from what we have all followed. He names his teachers, but one only need be cited. He early met Jacob G. Lipman, a great teacher, a great agriculturist, and a great human. From that time on Lipman was adviser, friend, or defender as the situation demanded. He went through all the struggles for promotion from helper to department head.

In Soil Microbiology he explored all the usual projects of the day including pretentious studies of soil fungi and soil actinomycetes. Then unsatisfied, he attended the Soil Congress in Rome and made his "Grand Tour". He gives a day by day report of his interviews in most of the great laboratories dealing in soil problems and soil organisms. Back in America he produced his *Principles of Soil Microbiology*, some 800 to 900 pages and perhaps 2000 bibliographic citations. Still unsatisfied he turned his research laboratory to the problems of Humus and we got another book under this title. Then essentially he quit the soil.

Fleming's paper in 1929, announcing the discovery of penicillin as an antagonistic product separable from the mold producing it, had set off a lot of studies of antagonisms. Working in Texas in collaboration with Soil Microbiology (Washing-

ton), Dr. Marie B. Morrow reported that many fungi would inhibit the mold of root-rot of cotton (*Phymatotrichum*) in greater or less degree in vitro. Waksman turned to the Actinomycetes, especially species of *Streptomyces* which he had studied for many years. Thus he obtained the whole series of products culminating in Streptomycin which has brought him worldwide fame, and stimulated floods of literature under the title antibiosis. He has correctly shown how the background of acquaintance with many strains of *Streptomyces*, which were well known to surround their colonies with zones free from other species, had prepared him for the interpretative attack which has yielded such outstanding results. So much has already been published that summaries are futile. Sufficient if we say, he saw the fulfillment of a dream well known to some of his colleagues, that an Institute of Microbiology should be created at Rutgers.

What shall we say of the book as a whole? He has written it as a story—without documentation, without chronology and without index. It is easy to read as a narrative, but is that all? Suppose we look at one story, page 173—the reviewer knew that story—he told it to Waksman. It was the report of the reviewer's own first hour with Wehmer in 1905. With Waksman's name interpolated, details embellished, and one of the molds incorrectly named, he makes a good tale of it. It is, psychologically, not bad as a story, but it is hardly historical. Unfortunately, the book will not be left as a story. He has put into it materials that will be cited as sources—reports of controversy on specific topics against named scientists, the identification of processes and projects in which he played significant roles, claims of priority to ideas. For such materials an index is almost essential to access. Nevertheless, it stands as interesting reading tracing Waksman's path to fame.

CHARLES THOM

NEWS AND MEETINGS OF LOCAL BRANCHES

Northern California and Hawaii Branch (H. J. Phaff, Secretary-Treasurer)

October 21, 1954. The meeting of the Branch was held in room 2003 Life Science Building of the University of California at Berkeley. The following officers were elected to take office January 1, 1955: President, H. Albert Barker; Vice-President, James C. Lewis; Secretary-Treasurer, H. J. Phaff, Councilor to S.A.B., M. P. Starr; Alternate Councilor, R. Y. Stanier. The following papers were presented at the scientific session of the meeting:

1. Bactericidal action of antibiotics on non-multiplying bacteria. J. B. Gunnison, E. Kunishige, V. R. Coleman, and E. Jawetz, Department of Microbiology, University of California, Medical Center, San Francisco.

2. Present trends in research on poliomyelitis vaccines. K. J. Taylor, Cutter Laboratories, Berkeley.

3. A progress report on a survey of bats in California for rabies. John B. Enright and W. W. Sadler, School of Veterinary Medicine, University of California, Davis.

4. A new filamentous marine bacterium. Ruth Harold and Roger Y. Stanier, Department of Bacteriology, University of California, Berkeley.

5. The kinetics of pigment synthesis by purple bacteria. Roger Y. Stanier and G. Cohen-Bazire. Department of Bacteriology, University of California, Berkeley.

Southern California (Frances A. Hallman, Secretary-Treasurer)

December 27, 1954. The Branch met in joint session with the Northern California-Hawaii Branch in conjunction with the national meeting of the A.A.A.S. on the campus of the University of California at Berkeley. In addition the two Branches co-sponsored with other organizations a symposium on "Physics-Chemical Control of Structural Differentiation of the Fungi", held on December 28, 1954. The programs of these meetings follow:

Monday Morning, Dec. 27

9:30 a.m.; Room 105, California Hall; *Contributed Papers.* Joint session of the Northern California and Hawaiian Branch and the Southern California Branch of the Society of American Bacteriologists. Arranged by Herman J. Phaff, University of California, Davis, and Frances A. Hallman, University of Southern California.

John B. Enright, School of Veterinary Sciences, University of California, Davis, *Presiding*

1. Chemotherapy and Protection Against Re-infection in Experimental Tuberculosis. Ben. C. Sher, and George M. Czaja, Municipal Tuberculosis Sanitarium, Chicago, Illinois. (15 min.)
2. Intra-pleural Administration of Antimicrobials in Tuberculosis. Ben C. Sher, and M. Lopez-Belio, Municipal Tuberculosis Sanitarium, Chicago, Illinois. (15 min.)
3. *In Vitro* Production of the Spherule Phase of *Coccidioides immitis*. Robert Lubarsky, and Orda A. Plunkett, University of California, Los Angeles. (Lantern, 10 min.)
4. Isolation of *Coccidioides immitis* from Wild Rodents from Various Areas of Southern California. Orda A. Plunkett, Robert Lubarsky, and Frank Swatek, University of California, Los Angeles. (10 min.)
5. Isolation of *Coccidioides immitis* from Soils from Various Areas of Southern California. Orda A. Plunkett, Robert Lubarsky, and Frank Swatek, University of California, Los Angeles. (10 min.)
6. A Comparison of Streptomycin—Dependent and Streptomycin—Independent Mutants of *Brucella melitensis* for Immunogenic Potency. Sanford S. Elberg and Mendel Herzberg, University of California, Berkeley. (20 min.)
7. Changes in Virulence of Hemolytic Streptococci

Induced by Growth in Metal-Deficient Media. John H. Phillips and Sanford S. Elberg, University of California, Berkeley. (Lantern, 15 min.)

8. Mode of Inhibition of Catalase-positive Microorganisms by Sorbic Acid. George K. York, II, and Reese H. Vaughn, University of California, Davis. (15 min.)

The Role of Nutrition in the Host-Parasite Relationship. Dr. Garver, University of Chicago, Chicago, Illinois.

Monday Afternoon, Dec. 27

2:00 p.m.; Room 105, California Hall; *Contributed Papers.* Joint session of the Northern California and Hawaiian Branch and the Southern California Branch of the Society of American Bacteriologists. Arranged by Herman J. Phaff, University of California, Davis, and Frances A. Hallman, University of Southern California.

William D. Rosenfield, California Research Corporation, La Habra, *Presiding*

9. Generic Specificity of Actinomycete Phages. Edward N. Azarowicz, and Orda A. Plunkett, University of California, Los Angeles. (Lantern, 10 min.)
10. Electron Microscope Observations of Bacteriophage Invasion Processes. Robley C. Williams and Dean Fraser, University of California, Berkeley. (Lantern, 15 min.)
11. Studies on the Role of Activated DNase in *E. coli* Infected with T2 Bacteriophage. R. E. Kunkee and A. B. Pardee, University of California, Berkeley.
12. Genetic Transformation in *Xanthomonas phaseoli*. R. Reece Corey, University of California, Davis. (20 min.)
13. Some Effects of High Hydrostatic Pressure Upon the Urea-urease System. Donald W. Lear, Jr., and Claude E. Zobell, Scripps Institution of Oceanography, La Jolla, California. (Lantern, 15 min.)
14. Inhibition of Nitrataze Activity by High Hydrostatic Pressure. Keith M. Budge and Claude E. ZoBell, Scripps Institution of Oceanography, La Jolla, California. (Lantern, 15 min.)
15. On the mechanism of Oxidation of L-arabinose by *Pseudomonas saccharophila*. Ralph Weimberg and M. Doudoroff, University of California, Berkeley. (15 min.)
16. Bacteriological Investigations of Citrus Packing House Washing Solutions. Everett R. Wolford, Fruit and Vegetable Chemistry Laboratory, Agricultural Research Service, U. S. D. A., Pasadena, California. (Lantern, 10 min.)

Tuesday Afternoon, Dec. 28

1:30 p.m.; Room 113, Agriculture Hall; Symposium: *Physico-Chemical Control of Structural Differentiation*

in the Fungi. Program of the Mycological Society of America, cosponsored by the American Phytopathological Society, Pacific Division; the American Society of Plant Physiologists, Western Section; the Botanical Society of America, Pacific Section; the Society of American Bacteriologists, Northern California and Hawaiian and Southern California Branches; and AAAS Section G-Botanical Sciences. Arranged by Ralph Emerson, University of California, Berkeley.

Cornelis B. Van Niel, Stanford University, *Presiding*

1. Studies on the Development of Asexual Reproductive Structures in *Pilobolus*. Robert M. Page, Stanford University.
2. The Relations Between Cellular Metabolism and Morphogenesis in *Blastocladiella*. Edward C. Cantino, University of Pennsylvania.
3. Factors Affecting Growth and Differentiation in Simple Slime molds. Kenneth B. Raper, University of Wisconsin.
4. Newer Developments in Bacterial Sporogenesis. Jackson W. Foster, University of Texas.

(Each paper will be about 30 minutes, followed by a discussion period of 15 minutes.)

Colorado-New Mexico-Wyoming Branch, (Charles R. Bitter, Secretary)

November 6, 1954. The Colorado-New Mexico-Wyoming Branch met at the University of Colorado Medical Center, Denver, Colorado, through the invitation of the department of microbiology of University of Colorado. Arrangements were made by Elizabeth O'Toole and graduate students of the department.

Following a pre-meeting get-together and coffee hour, a morning business meeting was held at which officers for the coming year were elected: President, Gordon Robertstad, University of Wyoming; Vice-president, Charles R. Bitter, University of Colorado, Boulder; Secretary, Elizabeth O'Toole, University of Colorado, Denver and Treasurer, Darwin Alonzo, University of Colorado, Denver.

Members from New Mexico were officially welcomed into the Branch.

Luncheon was served in the hospital staff dining room and followed by the afternoon scientific session consisting of the following papers:

1. Recent Information on Anti-mycotic Agents. Elizabeth O'Toole, University of Colorado Medical Center, Denver.
2. The Bacteriology and Treatment of Urinary Tract Infections. Dr. W. E. Clapper, Department of Bacteriology and Dr. L. E. Plank, The Lovelace Foundation, Albuquerque, N. M.
3. Drug Resistance of Tubercle Bacilli. Dr. Maurice L. Cohn, National Jewish Hospital, Denver, Colorado.

4. Observations with the Tribe *Mimeae*. Dr. Stuart G. Dunlop, University of Colorado Medical Center and Major Charles D. Graber, Fitzsimons Army Hospital.

Leo F. Rettger-Connecticut Valley Branch (Katherine Marden, Secretary-Treasurer). November 12, 1954. The fall meeting of the Branch was held in Page Hall, University of Massachusetts, Amherst. At the business meeting the following officers were elected: President, Dr. P. L. Carpenter; Vice-President, Mrs. Evelyn Hibbard; Secretary-Treasurer, Katherine Marden; Councilor, Dr. Ethel T. Eltinge; Alternate Councilor, Dr. Elizabeth D. Robinson. Dinner was served at the University Commons followed by the evening session at which Dr. Gerald von Hanselman, Charles Pfizer and Company, spoke on "Some Difficulties in Laboratory Handling of Antibiotics". The afternoon session consisted of the following papers:

1. Interrelationships between Amino Acids for some Flavabacteria. H. N. Prince and R. C. Cleverdon, University of Connecticut, Storrs, Conn.
2. Further studies on differentiation of *Brucella* Species. H. Kaye, E. W. Hibbard and E. C. Borman, Connecticut State Dept. of Health, Hartford.
3. Fluctuations in the Sensitivity of Human Leucocytes to Tuberculin *in vitro*. E. F. O'Neil, Veterans' Hospital, Rutland, Mass.
4. The Use of Fecal Streptococci as Indicator Organisms in Frozen Foods. E. P. Larkin, University of Massachusetts, Amherst.
5. Serological Testing of Poultry for PPLO Infection. E. L. Jungherr, M. E. Tourtellotte, R. E. Luginbuhl and W. E. Burr, University of Connecticut, Storrs.

Illinois Branch (C. J. Rickher, Secretary)

January 29, 1955. The winter meeting of the Branch was held at the Edgewater Beach Hotel. The afternoon scientific session consisted of the following papers:

1. Some Intermediates in Nitrate Reduction. S. Simon and L. R. Hedrick, Illinois Institute of Technology, Chicago.
2. Properties of the Cell Walls of Group A Beta Hemolytic Streptococci. S. S. Barkulis, College of Medicine, University of Illinois, Chicago.
3. The Effect of Certain Sporulation Conditions on the Thermal Death Rate of *Bacillus coagulans* var. thermoacidurans. H. M. El-Bisi and Z. John Ordal, University of Illinois, Urbana.
4. Factors Influencing the Germination of Spores of *Clostridium botulinum* type B. S. Zoha and H. O. Halvorson, University of Illinois Urbana.

5. Location of Metaphosphate in the Yeast Cell. C. C. Lindegren, D. O. McClary and M. Williams, Southern Illinois University, Carbondale.

6. The Liberation of Volatile Acids from Butyrate by Microbial Lipases. W. O. Nelson and J. C. Wilcox, University of Illinois, Urbana.

7. A Selective Plating Medium for the Quantitative Detection of Coagulase-positive Staphylococci. E. Zebovitz, J. B. Evans and C. F. Niven, Jr., American Meat Institute Foundation, University of Chicago.

8. An Adaptive DPN-linked Inositol Dehydrogenase from *Aerobacter aerogenes*. W. T. Jackson, J. R. Stamer and J. Lerner, University of Illinois, Urbana.

9. The Production of Lactose Positive Shigella dysenteriae by Genetic Transfer. E. S. Lennox, Department of Bacteriology, University of Illinois, Urbana.

10. Following a social hour and dinner, W. W. Ackerman, Department of Epidemiology, School of Public Health, University of Michigan, Ann Arbor, Michigan, spoke on "Stages in the Development of Animal Viruses".

Kentucky-Tennessee Branch (Ilda McVeigh, Secretary-Treasurer)

November 5, 6, 1954. The Fall meetings of the Kentucky-Tennessee Branch of the S.A.B. were held at the University of Kentucky, Lexington, Kentucky. The following officers were elected for 1955: President, Charles C. Randall; Vice-President, Daniel Billen; Secretary-Treasurer, Ilda McVeigh; Councilor, D. Frank Holtman; Alternate Councilor, Warren McA. Deacon. The following papers were presented at the scientific sessions.

1. The young pig as a possible diagnostic animal for equine infectious anemia. M. Scherago, Department of Bacteriology, University of Kentucky, Lexington, Kentucky.

2. Amine sugar metabolism of *Serratia marcescens*. W. J. Payne, Department of Bacteriology, University of Tennessee, Knoxville, Tennessee.

3. Strains of *Escherichia coli* K-12 resistant to various antibiotics I. Morphological and physiological characteristics. Gerard A. Dvorsky* and Ilda McVeigh, Department of Biology, Vanderbilt University, Nashville, Tennessee.

4. Serological studies on streptomycin resistant *Shigella*. Wilbur E. Dunkelberg and Margaret Hotchkiss, Department of Bacteriology and Medical Technology, University of Kentucky, Lexington, Kentucky.

5. Culture conditions which affect the survival of *Escherichia coli* at -22C. Arthur P. Harrison, Jr., Department of Biology, Vanderbilt University, Nashville, Tennessee.

6. A study of the growth factor requirements of four strains of *Clostridium tetani*. Leo Kaufman and James C. Humphries, Department of Bacteriology, University of Kentucky, Lexington, Kentucky.

7. Role of amino acids in *Salmonella pullorum* infection of baby chicks. Richard T. Ross and D. Frank Holtman, Department of Bacteriology, University of Tennessee, Knoxville, Tennessee.

8. The influence of infection with *Bacterium tularensis* on amino acid metabolism of rat tissues. John M. Woodward and Mary Mayhew, Department of Bacteriology, University of Tennessee, Knoxville, Tennessee.

9. Studies on the mutational potentialities of *Klebsiella pneumoniae* using bacteriophages as selective agents. Paul D. Williams and James C. Humphries, Department of Bacteriology, University of Kentucky, Lexington, Kentucky.

10. The carotenoid pigments of the cedar apple rust fungus. Frederick T. Wolf* and Frederick A. Wolf, Department of Biology, Vanderbilt University, Nashville, Tennessee and Department of Botany, Duke University, Durham, North Carolina.

11. The fungi-sterol complex. II. Sterol content of a number of representative fungi. George Appleton, Department of Bacteriology, University of Tennessee, Knoxville, Tennessee.

12. Strains of *Escherichia coli* K-12 resistant to various antibiotics. II. Reaction to infection with bacterial viruses. Gerard A. Dvorsky* and Ilda McVeigh, Department of Biology, Vanderbilt University, Nashville, Tennessee.

13. Electron microscope observations on a bacteriophage for *Salmonella paratyphi*. O. F. Edwards, Department of Bacteriology, University of Kentucky, Lexington, Kentucky.

14. Common attributes of *Pediococcus cerevisiae*, *Aerococcus viridans* and *Gaffkya homari*. Peggy S. Gross, Rose E. Cerroni, and Arthur P. Harrison, Jr.,* Department of Biology, Vanderbilt University, Nashville, Tennessee.

15. The *in vitro* testing of the sensitivity of human leucocytes to tuberculin. Herbert E. Hall* and M. Scherago, Department of Bacteriology, University of Kentucky, Lexington, Kentucky.

16. Observations on a strain of *Bacteroides*. Loyal S. Suter, Elizabeth W. Ulrich, and Bryant F. Vaughan, Veterans Administration, Medical Teaching Group Hospital, Memphis 15, Tennessee.

17. Propagation of equine abortion virus in adult horse tissue *in vitro*. Charles C. Randall, M.D., Division of Bacteriology, Department of Pathology, School of Medicine, Vanderbilt University, Nashville, Tennessee.

Maryland Branch (C. Baxter McLaughlin,
Secretary-Treasurer)

December 2, 1954. A meeting of the Branch was held at the Madison Restaurant, Baltimore. The following papers comprised the scientific session:

1. Biochemistry and Physiology of Bacterial Luminescence. William D. McElroy, McCollum-Pratt Institute, Johns Hopkins University.

2. A Review of Studies on Fever. Ivan L. Bennett, Jr., Johns Hopkins Hospital.

January 17, 1955. The Branch met at the Homewood Dining Room, Homewood Apartments, Baltimore. Refreshments at the Social Hour preceding the dinner and meeting were by the courtesy of Baltimore Biological Laboratory. The scientific session consisted of the following papers:

1. Specific Agglutination of *Treponema Pallidum*. Paul H. Hardy, Johns Hopkins University.

2. Studies of Shigellosis in Egypt. Thomas M. Floyd, MSC, U.S.N., Johns Hopkins University.

March 1, 1955. The meeting of the Branch was held in the auditorium of the Maryland State Department of Health, Baltimore. The following papers were presented:

1. Research Opportunities at the Naval Medical Research Unit, Cairo, Egypt. Roger D. Reid, Office of Naval Research.

2. Pathology and Activity of Protoplasm. William Seifriz, Professor of Botany, University of Pennsylvania.

Michigan Branch (Elizabeth J. Cope,
Secretary-Treasurer)

December 4, 1954. The meeting of the Branch was held at the Veterans' Memorial Building, Detroit. The following officers were elected for 1955: President, William Ferguson, Michigan Dept. of Health, Lansing; President-Elect, Donald Merchant, University of Michigan, Ann Arbor; Secretary-Treasurer, Elizabeth J. Cope, Detroit. The following papers were presented at the scientific session:

1. An Internal Amino Acid Replenishment Mechanism in Yeast. H. O. Halvorson, University of Michigan.

2. Non-Specific Action of Mammalian Hormones on the Dehydrogenase Activity of *Escherichia coli*. D. C. Jordan and C. L. San Clemente, Michigan State College, East Lansing.

3. Effect of Ultraviolet Light of Different Wave Lengths on the Production of Cytochrome-Deficient Yeasts. Caroline Raut, Detroit Institute of Cancer Research, Detroit.

4. Micro-methods in Carbohydrate Screening of Enteric Organisms. Doris Walter, Elizabeth J. Cope and Perry C. Martineau, Detroit Department of Health.

5. The Effect of Antibacterial Serum on the

Adsorption of Bacteria Phage. Leonard Binn, W. S. Preston, C. Levinthal, University of Michigan.

6. The Relation Between Lipid Content and Resistance of Bacterial Spores. B. Church, D. Ramsey, R. Hartman and H. O. Halvorson, University of Michigan.

7. The World in a Glass. (Movie). Albert J. Wyffels, Hiram Walker, Inc., Detroit.

8. An Epidemic of Infantile Diarrhea caused by *E. coli* Serotype 0-127, B8. C. S. Stulberg, A. C. Nolke, A. L. Thompson, W. W. Zuelzer and P. Z. Woolley, Child Research Center of Michigan, Detroit.

9. False Positives in the Serology of Syphilis. Reuben L. Kahn, University of Michigan.

10. Abortion in Rabbits Following Ocular Instillation of *Listeria monocytogenes*. M. L. Gray, C. Singh and Frank Thorp, Jr., Michigan State College, East Lansing.

Eastern Missouri Branch (Lucille K. Schulze,
Secretary-Treasurer)

October 26, 1954. The fifty-seventh meeting of the Branch was held at the Wohl Health Center. The following papers were presented.

1. Effects on Biological Material on Freezing and Drying by Vacuum Sublimation. D. Greiff, St. Louis University, St. Louis.

2. Further Studies on the Inhibitor for the Red Cell Altering Factor of Streptococci. A. C. Sonnenwirth, Department of Bacteriology, Jewish Hospital, St. Louis and M. Moskowitz, Purdue University, Lafayette, Indiana.

December 4, 1954. At the fifty-eighth meeting of the Branch, held at Wohl Health Center, the following officers were elected for 1955: President, Dr. I. L. Shechmeister, Washington University School of Dentistry, St. Louis; Vice-President, Dr. H. A. Hoffman, Anheuser-Busch, Inc., St. Louis; Secretary-Treasurer, Lucille K. Schulze, St. Louis Public Health Laboratory. The following papers were presented at the scientific session:

1. Physiological Aspects of Sporulation in Bacteria. Dr. W. Hardwick, Anheuser-Busch, Inc., St. Louis.

2. Adaptive Formation of Two Different Types of Formylase in a Single *Pseudomonas* Species. Dr. E. Ohmura and Dr. O. Hayaishi, Washington University School of Medicine, St. Louis.

3. Correlation of Lactose Fermentation and Antibiotic Sensitivity by *Klebsella pneumoniae*. Dr. H. Goldberg and Dr. V. Cabelli, University of Missouri, Columbia, Mo.

New Jersey Branch (Theobald Smith Society;
Eugene L. Dulaney, Secretary)

December 16, 1954. The meeting of the Branch was held at the Johnson and Johnson Research

Center, New Brunswick, N. J. The following papers were presented:

1. Studies on the Protective Antigen of *Bacillus anthracis*. Dr. George C. Wright, Camp Detrick, Md.

2. Applications of the Serum Agar Technique to Immunology and Bacteriology. Dr. John J. Munoz, Sharpe and Dohme Division, Merck and Co., Inc.

New York City Branch (E. M. Weber,
Secretary-Treasurer)

January 6, 1955. The sixty-ninth meeting of the Branch was held at the Hotel Statler. A luncheon meeting was held in the Penn Top North at which Dr. Wayne W. Umbreit, The Merck Institute for Therapeutic Research, spoke on "Meditations on Autotrophy". Following this session the meeting divided into two sections that held concurrent meetings. The programs of these follow:

Leon Buchbinder Presiding

A1. The Changing Picture of Tuberculosis Control in New York City. Arthur B. Robbins, M.D., New York City Department of Health.

A2. The Laboratory Phase of the New York City Health Department Tuberculosis Program. Daniel Widlock and Lenore R. Peizer, New York City Department of Health.

A3. Implications of Aberrations in Gamma-Globulin Metabolism in Infectious Disease. Robert Slater, Cornell University College of Medicine.

A4. An Immunological Study of Multiple Myeloma Proteins. Leonhard Korngold and Rose Lipari, Sloan-Kettering Institute for Cancer Research.

A5. The Use of Agar Precipitins in the Study of Human Streptococcal Infections. S. P. Halbert, L. Swick and C. Sonn, College of Physicians and Surgeons, Columbia University.

A6. The Production of Nephritis in the Rat by Means of Cytotoxic Serum: the Occurrence of a Latent Period. Margo Hasson, Beatrice Seegal and Mildred Rothenberg, College of Physicians and Surgeons, Columbia University.

A7. Factors Influencing the Susceptibility of Mice to Staphylococcal Infections. J. Maclean Smith and Rene J. Dubos, The Rockefeller Institute for Medical Research.

A8. Diagnostic Laboratory Observations on Patients with Cryptococcal Meningitis. Alfred Cohn, M.D., Montefiore Hospital, New York.

A9. Antibiotic Sensitivity of Microorganisms Isolated in the Bronx Hospital in 1953-1954. Alfred J. Weil, M.D., The Bronx Hospital.

A10. General Meeting of Both Sections. Motion Picture: "Morphological Changes of *E. coli* under the Influence of Antibacterial Substances. Research Department, Ciba Pharmaceutical Products, Inc.

Seymour H. Hutner, Presiding

B1. The Determination of Mycostatin (Squibb Nystatin) in Body Fluids. J. F. Pagano and H. Stander, The Squibb Institute for Medical Research, New Brunswick.

B2. The Effect of Mycostatin on Experimental Candidiasis in Mice and Embryonated Eggs. Bernard A. Steinberg, Carlos Espana, William P. Jambor and M. de Blasio, The Squibb Institute for Medical Research, New Brunswick.

B3. The Nutrition of *Flavobacterium proteus*. F. B. Strandkov and J. B. Bockelmann, F. M. Shaefer Brewing Co., Brooklyn.

B4. Riboflavin, Vitamin B₁₂ and Other Requirements of *Caulobacter* Strains. Milton K. Goldberg, The Haskins Laboratories, New York.

B5. Nutrition of Pathogenic Anaerobes. W. F. Barg, Jr., Lederle Laboratories, Pearl River.

B6. Effect of Cortisone and Hydrocortisone on Growth of Fibroblastic Cells in Tissue Culture. Margaret Holden and Lillian B. Adams, College of Physicians and Surgeons, Columbia University.

B7. Production of 16 Hydroxy-Steroids by Microorganisms. R. W. Thoma, J. R. Gerke, G. Greenspan, J. E. Herz and Josef Fried, Squibb Institute for Medical Research, New Brunswick.

B8. Development of a Microbiological Process for Production of 11 Hydroxy-17 Hydroxy-Cortisone. W. E. Brown, R. W. Thoma, C. L. Kroll, J. R. Gerke, W. Frazier and E. Frank, Squibb Institute for Medical Research, New Brunswick.

B9. Antibiotic and Vitamin B₁₂ Production by a Steroid Oxidizing Streptomycete. D. Perlman, A. P. Bayan, E. O'Brien and R. B. Greenfield, Jr., Squibb Institute for Medical Research, New Brunswick.

B10. A Potentiation of Antibacterial Activity as Demonstrated by the Cogwheel Method. L. G. Herman, M. B. Sherwood and J. O'Brien, The Wellcome Research Laboratories, Tuckahoe, N. Y.

B11. Joint meeting with Section A.

North Carolina Branch (Mary A. Poston,
Secretary-Treasurer)

December 4, 1954. The fall meeting of the Branch was held at North Carolina College, Raleigh. The following officers were elected to take office January 1, 1955. President, Dr. David T. Smith, Duke University School of Medicine; Vice-President, Dr. John L. Etchells, Box 5578, Raleigh, N. C.; Secretary-Treasurer, Miss Mary A. Poston, Duke University, Durham; Councilor, Dr. William J. Cromartie, University of N. C. School of Medicine, Chapel Hill; Alternate Councilor, Dr. Alfred F. Borg, N. C. State College, Raleigh. Dr. H. O. Halvorson gave the evening meeting address, speaking on "The Bacterial Endospores as

Biological Problem". The papers presented at the afternoon scientific session follow:

1. The Relation between Colony Appearance and Virulence of *Pseudomonas solanacearum*. Arthur Kelman, N. C. State College.
2. Factors Affecting the Reversal of Propionate Inhibition of *Streptococcus faecalis*. C. H. Hill, N. C. State College.
3. Aerobic Organisms Associated with Treatment of Sewage and Waste. N. L. Nembrow and C. Smallwood. N. C. State College.
4. Observations on Pleuropneumonia-like Organisms Recovered in Culture from Urethritis Patients. Maurice C. Shepard, Naval Medical Field Research Laboratory, Camp Lejeune.
5. Experimental Chromoblastomycosis in Man. Alfonso Trejos, Duke University.
6. An Epidemic of Blastomycosis. J. Graham Smith, Duke University.
7. Virulence of Mycobacteria. Irene Melvin and H. Mac. Vandiviere, Gravely Sanatorium, Chapel Hill.

North Central Branch (Adaline N. Mather, Secretary-Treasurer)

October 22-23, 1964. The annual meetings of the North Central Branch were held at the University of Minnesota, Minneapolis. The following officers were elected: *President*, W. B. Sarles; *Vice-President*, A. P. McKee; *Secretary-Treasurer*, Adaline N. Mather; *Councilor*, A. P. McKee.

A tour of the bacteriology facilities in the new Mayo Memorial Building at the University of Minnesota Medical Center was arranged Friday afternoon after the scientific session. The annual banquet was held Friday evening at the Coffman Memorial Union. Dr. Rene Dubos of the Rockefeller Institute for Medical Research spoke on "Metabolic Determinants of Infection." Two scientific sessions were held, one Friday afternoon and the other Saturday morning. The following papers were presented.

1. In Vitro Synthesis of Hyaluronate by Group A Streptococci. Yael Ginzburg* & D. W. Watson, University of Minnesota, Minneapolis.
2. Formation of Adenosine by *Escherichia coli*. John L. Ott and C. H. Werkman, Iowa State College, Ames.
3. Incorporation of CO₂ into Protein by *Rhodospirillum rubrum*. Daniel Hug and C. H. Werkman, Iowa State College, Ames.
4. Enzymatic Patterns in the *Azotobacter agilis* Group. Jane Schutter and Perry W. Wilson*, University of Wisconsin, Madison.
5. Streptomycin-Resistance without Streptomycin. L. L. Cavalli-Sforza, Instituto Sieroterapico Milanese, Italy and J. Lederberg, University of Wisconsin, Madison.
6. Growth of Pure Cultures of Psychrophiles

in Raw Milk at 38° F. E. H. Marth* and W. C. Frazier, University of Wisconsin, Madison.

7. Some Morphological Studies on a Giant Colony Complex. R. L. Richardson and G. H. Bornside, State University of Iowa, Iowa City.
8. Report of Preliminary Survey of Farm Wells and Ponds in Central Iowa. E. B. Fowler and E. R. Baumann, Iowa State College, Ames.
9. An Evaluation of Fluorescence Microscopy for the Detection of Acid-Fast Bacilli. Warren A. Baker & Gerald M. Needham, Mayo Clinic, Rochester.
10. Bacterial Flora of the Anticubital Fossa: Their Relation to Blood Culture Technique. Douglas A. Norris and Richard M. Marwin, University of North Dakota, Grand Forks.
11. Antibiotic Sensitivity of Staphylococci from Chronic Bovine Mastitis. F. F. Piraino*, J. T. Seto, and J. B. Wilson, University of Wisconsin, Madison.

12. Characterization of Seven *Streptomyces griseus* Bacteriophages. Mrs. M. Alexander* and Elizabeth McCoy, University of Wisconsin, Madison.

13. Some Characteristics of Secondary Growth Organisms from Bacteriophage-lysed *Streptococcus lactis*. T. W. Holzinger, Iowa State College, Ames.

14. Toxic Response in Mice to Unadapted Influenza B Virus. Robert W. Pumper, State University of Iowa, Iowa City.

15. A Colorimetric Neutralization Test for the Presence of Poliomyelitis Antibodies in Human Serum, Using Acid Production of Metabolizing HeLa Cells as Indicator. H. E. Robertson, Theodor Brunner and J. T. Syverton, University of Minnesota, Minneapolis.

16. The Cytopathogenic Effects of Coxsackie Virus in Human Epithelial Cell Cultures. Richard L. Crowell*, and J. T. Syverton, University of Minnesota, Minneapolis.

17. Symbiotic Function of Intracellular Bacteria-like Bodies in the Cockroach. Marion A. Brooks* and A. Glenn Richards, University of Minnesota, Minneapolis.

Northeast Branch (Alice T. Marston, Secretary-Treasurer)

November 5, 1964. The Fall meeting of the Branch was held in Stone Science Building of Boston University. Dr. Orjan Ouchterlony, a visitor at the Massachusetts General Hospital from Sweden spoke on "Gel Diffusion Methods for Immunological Analysis" at the dinner session which was held at the University Faculty Club. The papers presented at the afternoon session were:

1. Laboratory and Clinical Studies on Furandantin. E. H. Beutner, J. J. Petronio, H. E. Lind, H. M. Trafton and M. Correia-Branco, Sias Laboratory, Brooks Hospital.

2. Salmonellosis in Massachusetts 1939-1953. R. R. Wheeler, J. Heizer, A. Krieg and P. Page, Tufts Medical School.

3. The Effect of Immunization and Spleen Homogenate Injection on Experimental Infection in Irradiated Mice. M. H. Hatch, Brown University.

4. Passive Transfer of Tuberculin Sensitivity. L. Cole, Peter Bent Brigham Hospital.

Ohio Branch (D. T. Maunder,
Secretary-Treasurer)

November 13, 1954. The Ohio Branch met on the campus of the Ohio State University in Columbus. The following papers were presented:

"Acetate metabolism in Baker's Yeast." J. A. DeMoss and H. E. Swim, School of Medicine, Department of Microbiology, Western Reserve University, Cleveland.

"Studies on the coupling of hydrogenase with fumaric reductase in microorganisms." Harry Peck, School of Medicine, Department of Microbiology, Western Reserve University, Cleveland.

"The isolation of potentially pathogenic fungi from polluted water and sewage." Wm. Bridge Cooke, Bacteriology Section, Research and Development Branch, Robert A. Taft Sanitary Engineering Center, Cincinnati.

"Virulence of strains of Herpes Simplex virus for mice." Isaac Ruchman, Department of Bacteriology, College of Medicine, University of Cincinnati, Cincinnati.

"Diagnostic cutaneous tests with thermal antibody prepared from Streptococci isolated in studies of diverse diseases." E. C. Rosenow, Longview Hospital, Cincinnati.

"Preliminary studies on the role of infection in total body irradiation of monkeys." S. Saslaw and Egon Nossal, The Medical Center, The Ohio State University, Columbus.

"Leptospiral agglutination, with a case report." Howard W. Stegmiller, Ohio Department of Health Laboratory, Columbus.

"The use of dye agglutination in the presumptive identification of diarrheal strains of pathogenic *Escherichia coli*." Bruce E. Daily, Children's Hospital, Columbus.

"Chemotherapeutic studies with ethyl vanillate on experimental Histoplasma infection." R. Macmillan and S. Saslaw, The Medical Center, The Ohio State University, Columbus.

"Experimental Histoplasmosis in mice, and pregnancy." Jan Schwarz, Eula Bingham, Edwin S. Robbins, and Salvador M. Adriano, Clinical Laboratories, Jewish Hospital and Laboratory of Mycology (Department of Dermatology and Pathology), Cincinnati General Hospital, Cincinnati.

Eastern Pennsylvania Branch (Theodore G. Anderson, Secretary-Treasurer)

November 23, 1954. The 245th meeting of the Branch was held in the auditorium of the Philadelphia County Medical Society Building. The scientific program follows:

1. An Improved *Leptospira* Bacterin for the Control of Bovine Leptospirosis. Albert L. Brown, Alan A. Creamer, and Samuel F. Scheidy, Sharpe and Dohme Division Merck and Co., Inc., West Point, Pa.

2. Dehydrogenase and Respiratory Activity in *Streptomyces fradiae* and *Streptomyces nitrificans*. R. Ram Mohan, Albert Schatz and Gilbert S. Trelawny, National Agricultural College, Farm School, Pa.

3. Demonstration-Automatic Machine for Filling and Plugging Media Tubes. James A. Harrison, Temple University, Philadelphia.

January 25, 1955. The 246th meeting of the Branch, held in the auditorium of the Philadelphia County Medical Society Building, consisted of a Symposium on Tissue Culture. Dr. Werner Henle, Children's Hospital, acted as moderator for the following papers:

1. Introduction and Method in Tissue Culture. Erling Jensen, Smith, Kline and French, Philadelphia.

2. Virus Growth Studies in a Suspended Tissue Culture System. Anthony Girardi, Children's Hospital, Philadelphia.

3. A Study of Animal Sera for the Presence of Antibodies and the Viruses of Poliomyelitis. Morton Klein and Pasquale Bartell, Temple University.

4. Some Aspects of the *in vitro* Tuberculin Sensitivity, University of Pennsylvania Medical School.

5. Some Aspects of the Adaptation of a Strain of Dengue Virus to Embryonic Mouse Brain Tissue Culture. Jack W. Frankel, Sharpe and Dohme Division Merck and Co., Inc., West Point, Pa.

February 22, 1955. The 247th meeting of the Branch, held in the auditorium of the Philadelphia County Medical Society Building, consisted of the following papers dealing with "Microbial Resistance to Antibiotic Agents":

1. Metabolic Aspects of Resistance. Joseph S. Gots, University of Pennsylvania.

2. Genetics of Microbial Resistance to Antibiotics. Wacław Szybalski, Institute of Microbiology, Rutgers University.

3. Clinical Laboratory Aspects of Resistance. Amedeo Bondi, Hahnemann Medical College, Philadelphia.

**Texas Branch (W. L. Flannery,
Secretary-Treasurer)**

December 3-4, 1954. The fall meeting of the Texas Branch was held in the Junior Ball-room at the University of Texas Student Center, Austin, Texas. Dr. Clarence F. Schmidt, Continental Can Company, Chicago, gave the I. M. Lewis lecture following the banquet Friday night. His topic was "Problems in the Study of Sporulation by the Members of the Genus *Bacillus*". Officers elected for 1955 were Robert M. Pike, President, and Robert P. Williams, Vice-president.

Three scientific sessions were held, on Friday afternoon, Saturday morning, and Saturday afternoon. The following papers were presented:

1. Studies on Indirect U.V. Irradiation in Relation to Mutagenic Activity. Carl Wiesen and Orville Wyss, University of Texas, Austin.

2. A Study of Metabolic Reactivation of Bacteria Inactivated by Ultraviolet. M. D. Socolofsky and Orville Wyss, University of Texas, Austin.

3. Induced Pigmentation in *Serratia Marcescens*. R. P. Williams and J. A. Green, Baylor Medical School, Houston.

4. A Comparative Study of the Porphyrin Constituents of Chlorophyll Mutants of Green Algae. L. H. Krough, Jr., L. L. Smith, and R. B. Mefferd, Jr., Southwest Foundation for Research and Education and Trinity University, San Antonio.

5. Bacteriological Studies Related to Certain Phases of Cheese Ripening. I. I. Peters and A. V. Moore, Texas A. & M., College Station.

6. The Effect of Soil Sterilization, Inoculation, and Phosphorus on Symbiotic Nitrogen Fixation in Houston Black Clay Soil. R. J. Hervey, Texas Agriculture Experiment Station, Temple.

7. Studies on Thiamine Chloride Hypersensitivity. W. J. Fahlberg and C. D. Dukes, Baylor Medical School, Houston.

8. Mutual Influence of Sensitizing and Challenge Tumors upon One Another as Influenced by the Dosage Size. J. D. Flintjer, P. Mazel, and R. B. Mefferd, Jr., Southwest Foundation for Research and Education and Trinity University, San Antonio.

9. The Arthus Reaction Actively and Passively Induced in the Mouse. A. A. Benedict and R. L. Tips, University of Texas Medical Branch, Galveston.

10. Studies on the Mechanism of Germination at 75° of Mesophilic *Clostridium* Spores. E. S. Wynne and L. I. Galyen, M. D. Anderson Hospital, Houston.

11. The Effect of Administering Antibiotics upon Antibiotic Resistant Microorganisms in the Intestinal Tract of the Chick. J. F. Elam, R. L.

Jacobs, W. L. Tidwell, and J. R. Couch, Texas A. & M., College Station.

12. Inhibition of Chlortetracycline Activity in the Intestinal Tract of the Rat. G. E. Peterson, University of Houston, Houston.

13. Potentiation of Experimental Monilial and Staphylococcal Infections by Tetracycline. Irene S. Tettenbaum, VA Hospital, and C. D. Dukes, Baylor Medical School, Houston.

14. Studies on the Mechanism of the Fungistatic Action of Salicylates. J. B. Nash, L. Gutierrez-Vela, and G. A. Emerson, University of Texas Medical Branch, Galveston.

15. Enzymatic Formation of Meso-Tartaric Acid from the Mold Product Trans-L-Succinic Epoxide. W. R. Martin and J. W. Foster, University of Texas, Austin.

16. Studies on the Isolation and Physiology of Some Bacteria Utilizing Gaseous Hydrocarbons. M. Dworkin and J. W. Foster, University of Texas, Austin.

17. Studies on Viral Hepatitis in Embryonated Eggs. M. Pollard and L. T. Diserens, University of Texas Medical Branch, Galveston.

18. An Investigation of Encephalitis. J. V. Irons, Minnie Lee Sung, and Thelma D. Sullivan, Texas State Department of Health, Austin.

19. Additional Studies on Psittacosis. Thelma D. Sullivan, J. Grimes, K. Knolle, and D. Mason, Texas State Department of Health, Austin.

20. *Pseudomonas* Infections in Burn Patients. I. An Attempt to Classify Recently Isolated Strains. J. A. Rivera and Ruth Latta, Brooke Army Medical Center, Fort Sam Houston.

21. Observation on a New Species of *Haemophilus*. C. D. Dukes and H. L. Gardner, Baylor Medical School, Houston.

22. Effects of Added Cysteine on Growth of *Streptococcus Faecalis* in Over-Autoclaved Medium. Cora L. Gott and E. S. Wynne, M. D. Anderson Hospital, Houston.

23. Total Phosphorus as an Indication of Bacterial Mass. E. O. Bennett, University of Houston, and R. P. Williams, Baylor Medical School, Houston.

24. A Blue Pigment Isolated from *Serratia Marcescens*. J. A. Green, R. P. Williams, and D. A. Rappoport, Baylor Medical School, Houston.

25. Finding of *Balantidium Coli* in Human Stool. H. E. Henderson, Texas State Department of Health, Austin.

26. Nitrogen Fixation and Hydrogenase in Bacteria. H. Wynn and Orville Wyss, University of Texas, Austin.

27. Auto-Immune Disease in Humans. S. Haberman, J. M. Hill, and D. E. Soules, Wadley Research Institute and Blood Center, Dallas.

28. Some Dynamics of Agglutination and the Coomes Antiglobulin Reaction. S. Haberman and

D. E. Soules, Wadley Research Institute and Blood Center, Dallas.

29. The Role of Starch in a Synthetic Medium for *Hemophilus Pertussis*. P. Donaldson, Southwestern Medical School, Dallas.

30. Clinical Use of the Gradient Plate Method for Antibiotic Sensitivity Testing. A. I. Braude, J. Banister, and N. Wrights, McKinney VA Hospital, McKinney.

Washington Branch (Bernice Eddy,
Secretary-Treasurer)

November 23, 1954. The 200th meeting of the Branch was held in the auditorium of the Army Medical Service Graduate School. The following officers were elected for the year 1955: President, C. Wallace Bohrer; Vice-President, L. A. Barnes; Secretary-Treasurer, Howard Reynolds; Councilor to the S.A.B., Margaret Pittman; Executive Committee, Mary Lou Robbins, M. J. Pelczar, Major Sidney Gaines; Vice-President Washington Academy of Sciences, Lloyd Burkey; The scientific session consisted of the following papers:

1. Hyaluronidase from *Streptococcus* Strain C7 as an Antigen. E. W. Emmart and R. M. Cole, National Institutes of Health.

2. Characterization of *Neisseria* Pigments by Ultra-violet absorption. H. C. Ellinghausen and M. J. Pelczar, Jr., University of Maryland.

3. An Alternate Pathway of Citrate Metabolism by *Escherichia coli*. Robert Wheat and Sam Ajl, Army Medical Service Graduate School.

January 25, 1955. The 201st meeting of the Branch was held in the Auditorium of the Army Medical Service Graduate School. The following papers were presented:

1. Immunity Patterns in the Guinea Pig Following *Toxoplasma* Infection and Vaccination with Killed *Toxoplasma*. E. C. Cutchins, University of Maryland and J. Warren, Dept. of Bacteriology, AMSGS.

2. The Effect of Antifungal Agents on Experimental Trichophytosis. S. Molinas, Division of Microbiology, F and D Adm.

3. Studies on Antigenic Structure of *Shigella flexneri* 4. R. B. Lindberg, AMSGS.

February 15, 1955. The 202nd meeting of the Branch was held in the auditorium of the Army Medical Service Graduate School. The scientific program consisted of the following papers:

1. Comparison of the Guinea Pig and the Chick in the Evaluation of Diphtheria Toxin for the Schick Test. R. W. Kolb, Sara E. Branham and D. B. Riggs. National Microbiological Institute, NIH.

2. Characteristics of a Proteolytic Enzyme from a *Streptomyces*. Margaret T. Goldsmith, Home Economics Research Branch, USDA.

3. Studies on the Properties of Colicines Produced by Selected Strains of *Escherichia coli*. Nazar El Shawi, A. J. Vargoske, Jr., L. W. Parr and Mary Louise Robbins, George Washington University.

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New Active Members

November 20, 1954 through January
18, 1955

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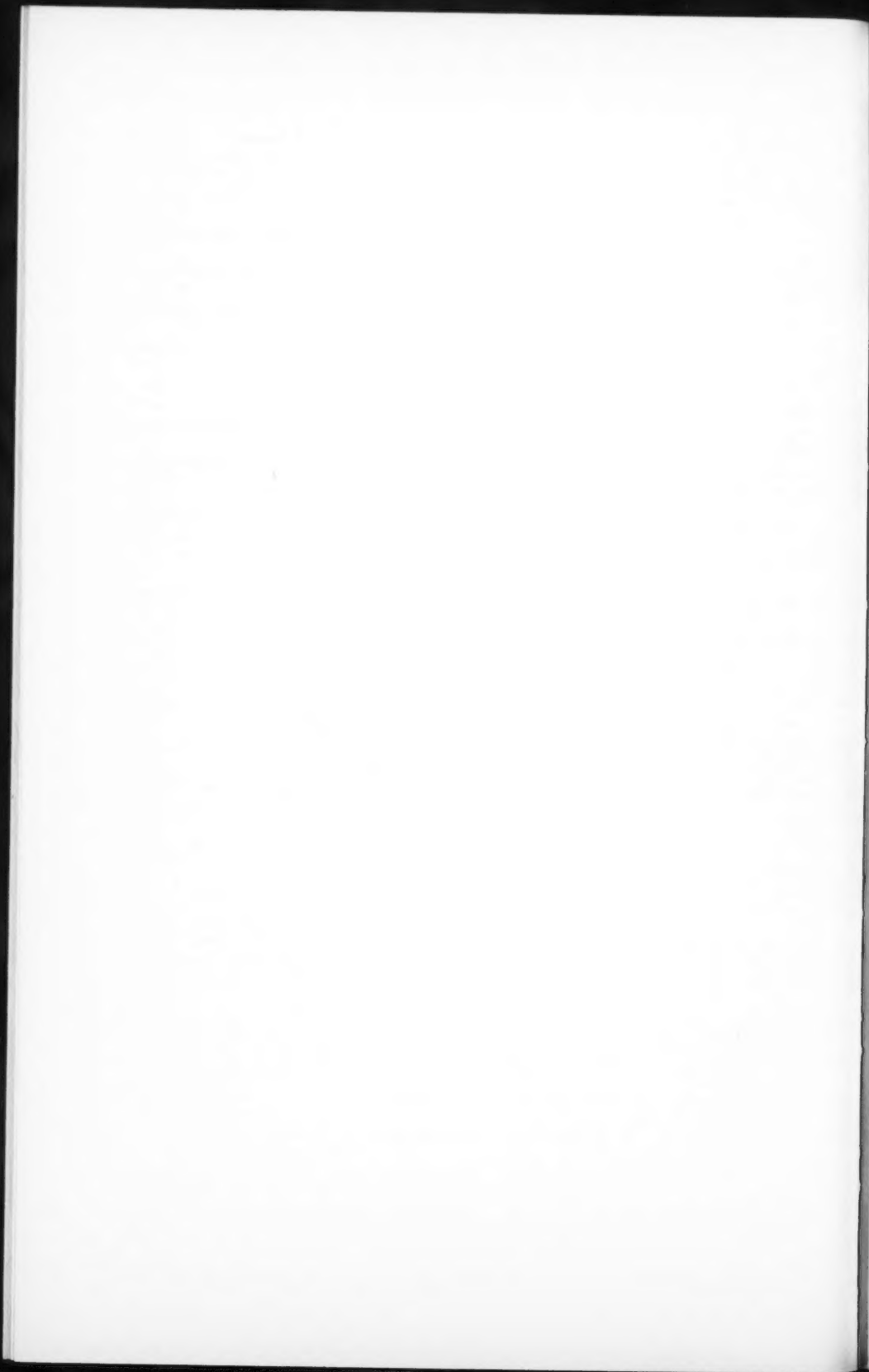
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